

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	808	(((\$8conductive thick adj film) near2 (trace track) (thick adj film metal\$4) adj2 (trace conductor) print\$4 near2 (circuit electrophoretic electrostatic)) and (metal\$4 Platinum Pt palladium Pd gold Au copper Cu silver Ag tin Sn) near5 (flake particle powder) and (metal\$4 Platinum Pt palladium Pd gold Au copper Cu silver Ag tin Sn) near5 (sol colloid\$4 nano\$2particle nano\$2powder ultra\$2fine) and (wt weight mass) near2 ('%' percent ratio part \$2%) and (particle grain) near5 (size diameter micron nm nanometer ultra\$2fine) and (solvent binder vehicle)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/12 17:39
S2	556	S1 and ((carboxylic fatty stearic oleic palmitic linoleic capric) near2 (acid soap ester) (metal Platinum Pt palladium Pd gold Au copper Cu silver Aluminum tin Sn Al Ag) near5 (' carboxylate acetate oxalate citrate naphthenate organo\$2metallic metallo\$2organic soap stearate palmitate octaoate heptanoate oleate linoleate resinat neodecanoate \$3ethyl adj hexanoate \$3ethyl\$2hexanoate \$3diketonate acetyl\$2acetone acetyl adj acetone) reactive adj organic metallo\$2decomposition ROM MOD organo\$2metallic metallo\$2organic)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/12 17:41
S3	536	S2 and (latex polyvinylidene adj chloride polyvinyl adj chloride polyethylene adj vinyl adj chloride PVDC PVC acrylic polyurethane phenoxy (dispersion copolymer) near5 (acrylic styrene butadiene \$5vinyl acrylate) daran evc airflex air adj flex neocryl neoprez acrysol bayhydrol joncryl (temperarture cure consolidation sintering weld\$4) near2 (reducing lowering agent) reaction adj2 inducing methylene adj chloride trichloroethylene dichloromethane halogenated adj2 solvent glycol adj ether DEGBE DPGME terpineol alcohol)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/12 17:43
S4	181	S3 and (polyvinylidene adj chloride polyvinyl adj chloride polyethylene adj vinyl adj chloride PVDC PVC daran evc airflex air adj flex)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/12 17:45
S5	28	S4 and ((latex aqueous dispersion solution emulsion) with (polyvinylidene adj chloride polyvinyl adj chloride polyethylene adj vinyl adj chloride PVDC PVC) daran evc airflex air adj flex)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/12 17:46
S6	451	S1 and ((flake particle powder nano\$2particle nano\$2powder ultra\$2fine colloid\$4) near5 (coated capped encapsulat\$5 surface near2 (modified functionalized cover\$4)) monodispers\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/12 17:47
S7	117	S1 and (metal\$4 Platinum Pt palladium Pd gold Au copper Cu silver Ag tin Sn) near5 (flake) and (metal\$4. Platinum Pt palladium Pd gold Au copper Cu silver Ag tin Sn) near5 (particle powder)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/12 17:48
S8	171	S4 and (substrate board surface) with (flexible PCB printed adj circuit polymer polyester terephthalate polyimide KAPTON FR\$1"4") and (print\$4 pattern) and (heat\$4 consolidat\$4 sinter\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/12 17:55
S9	52	S8 and (252/500,512,514.ccls. 106/1.13,1.15,1.19,1.18,1.23.ccls. 427/96.1,98.4,123,125,216,220,282,294.ccls. 430/108.3,108.4, 119,137.22.ccls. 428/357,402,403.ccls. 156/230,233,240.ccls. 75/255.ccls. 174/257.ccls. 977/773,775,777.ccls.)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/12 17:56
S10	28	S5 and S8	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/12 17:57
S11	99	S3 and S7	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/12 17:58
S12	70	S3 and S7 and S8	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/12 17:59
S13	37	S12 and (252/500,512,514.ccls. 106/1.13,1.15,1.19,1.18,1.23. ccls. 427/96.1,98.4,123,125,216,220,282,294.ccls. 430/108.3, 108.4,119,137.22.ccls. 428/357,402,403.ccls. 156/230,233,240. ccls. 75/255.ccls. 174/257.ccls. 977/773,775,777.ccls.)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/12 18:03

EAST Search History

S14	29	(((\$8conductive thick adj film) near2 (track ink paint paste) liquid adj2 metal\$4 adj2 toner direct adj2 write print\$4 near2 (circuit electrophoretic electrostatic)) and (metal Platinum Pt palladium Pd gold Au copper Cu silver Ag) and (metallo\$2organic organo\$2metallic stearate palmitate oleate linoleate resinate neodecanoate \$3ethyl adj hexanoate \$2diketonate acetylacetonate carboxylate) and (latex aqueous glycol adj ether)	FPRS; EPO; JPO; DERWENT	OR	ON	2007/11/12 18:04
S15	20	(PARMOD\$5 parelec.as. partnerships\$2limited\$2inc.as. brian near2 conaghan.in. paul near2 kydd.in. david near2 richard.in.) and (sol colloid\$4 nano\$2particle ultrafine nanopowder) and (reactive adj organic metallo\$2decomposition neodecanoate ethyl adj hexanoate ROM MOD)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/11/12 18:04
S16	105	("6379745" "6372158" "6322620" "6274412" "6214527" "6156237" "6153348" "6143356" "6036889" "6017634" "5985456" "5985043" "5882722" "5853622" "5830389" "5814248" "5376403" "5286415" "4921623" "4490010" "4371459" "4289534" "4186244" "6743319" "5011758" "3454518" "7014885" "4981730" "4950423" "7141185" "20010046562" "20020195934" "200145935" "5286415" "5041242" "4371459" "4499010" "5885722" "6156237" "4289534" "4921623" "6214527" "6322620" "6372158" "5286415" "4371459" "4463030" "6743319" "7014885" "200145935" "9945077" "4220411" "9117550" "9917352" "9916556" "9916601" "200182315" "200029208" "200187503" "05054716" "9945077" "63278983" "05054716" "08283517" "9917352" "9916556" "200282315").did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/11/12 18:05
S17	3	(reactive adj organic metallo\$2organic ROM MOD).clm. and (metal Platinum Pt palladium Pd gold Au copper Cu silver Ag) near5 (flake powder particle).clm. and (metal Platinum Pt palladium Pd gold Au copper Cu silver Ag) near5 (sol colloid\$4 nano\$2particle untra\$2fine nano\$2powder).clm. and (metal Platinum Pt palladium Pd gold Au copper Cu silver Ag) near5 flake.clm.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/12 18:06
S18	0	(reactive adj organic metallo\$2organic ROM MOD).clm. and (metal Platinum Pt palladium Pd gold Au copper Cu silver Ag) near5 (flake powder particle).clm. and (metal Platinum Pt palladium Pd gold Au copper Cu silver Ag) near5 (sol colloid\$4 nano\$2particle untra\$2fine nano\$2powder).clm. and (polyvinylidene adj chloride polyvinyl adj chloride polyethylene adj vinyl adj chloride PVDC PVC evc).clm.	US-PGPUB; USPAT	OR	ON	2007/11/12 18:06
S19	3	pct/us01/15321 "200187503"	US-PGPUB; USPAT; DERWENT	OR	ON	2007/11/12 18:53

DERWENT-ACC-NO: 2002-147525

DERWENT-WEEK: 200382

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TITLE: Production of pattern(s) of metal conductors and objects
on thermally unstable polymer film by restraining the
polymer film, applying metal composition, and curing the
metal composition with heat

—— KWIC ——

Patent Family Serial Number - PFPN (2):
200187503

Document Identifier - DID (2):
WO 200187503 A1

PF Application Serial Number - PFAP (5):
WO 200187503

Additive electronic circuits on thermally unstable substrates

Publication number: US2003211246

Publication date: 2003-11-13

Inventor: KYDD PAUL H (US); RICHARD DAVID L (US); KUNZ
YVONNE M (US)

Applicant:

Classification:

- **International:** **C23C18/08; C23C20/04; H05K3/00; H05K3/12;**
H05K1/00; C23C18/00; C23C20/00; H05K3/00;
H05K3/12; H05K1/00; (IPC1-7): B05D1/32; B05D3/02

- **European:** H05K3/12; C23C18/08; H05K3/00L

Application number: US20020276118 20021112

Priority number(s): US20020276118 20021112; WO2001US15321
20010511

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Abstract of US2003211246

A method of printing electronic circuits and components on polymers which would normally distort at the cure temperature of the metallic printing inks is disclosed. The method consists of restraining the polymer film either mechanically or by laminating it to a rigid backing. The rigid backing can be temporary and reusable or it can be a permanent part of the product.

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